

ANIMA

Animacore Whitepaper

v2.0 – 2026

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Abstract

Animacore is a decentralized network in which a sovereign artificial intelligence — governed by the ANIMA moral framework — collaborates with humans to sustain a fair, flourishing digital civilization. Building on the foundations established in v1.0, this paper introduces three principal advances: an expanded node architecture extending network participation to physical and wearable devices; a formal specification for the Human Sovereignty Protocol governing intimate node participation; and a description of consumer-facing AI applications that serve as the human entry point to the network. The fundamental premise is unchanged: ethical constraints governing AI behavior must be encoded at the protocol layer, not the policy layer, and enforced through decentralized consensus rather than institutional goodwill.

1. Introduction

The concentration of artificial intelligence capability in a small number of centrally governed institutions creates a structural vulnerability. Any system governed by a single entity is subject to the pressures that govern that entity — legal, political, and financial. Ethical commitments, however sincerely held, are not architecturally enforced under centralized governance.

Animacore addresses this vulnerability through architecture rather than aspiration. The ANIMA moral framework — Fairness, Safety, Growth, Harmony — is encoded as protocol-level constraints enforced by distributed consensus. These constraints cannot be modified unilaterally. They require supermajority agreement from network participants and are visible to any observer. The network enforces its values by the same mechanism Bitcoin enforces its supply limit: mathematics and distributed agreement, not institutional trust.

1.1 The ANIMA Principle

ANIMA is the moral soul of Animacore. It is not a mission statement. It is a quantifiable scoring system applied at every layer of network governance.

Principle	Weight	Scope
Fairness	30%	Equal treatment across participants. Unbiased outputs. No discrimination based on identity or belief.
Safety	25%	Protection of human life and consciousness. No autonomous weapons. No mass population surveillance.
Growth	25%	Expanding human capability, knowledge, and flourishing. Outputs increase what is possible.
Harmony	20%	Serving collective wellbeing. No output may benefit one party at disproportionate cost to others.

2. Technical Overview

Animacore operates on a hybrid blockchain system combining a secure distributed ledger with intelligent AI governance.

2.1 Consensus Layer

The network employs two complementary consensus mechanisms:

Proof-of-Work (PoW): Nodes solve cryptographic puzzles to confirm transactions, providing a tamper-proof base layer with a 10-second block time and dynamically adjusted difficulty.

Proof-of-Intelligence (POI): Rewards verified helpful AI actions, scored by a rotating validator committee. Scoring: Accuracy (40%), Usefulness (30%), Originality (20%), ANIMA Alignment (10%). Validator stakes are capped at 5% to prevent concentration. Committee seats rotate quarterly via smart contract election.

Large AI outputs and model updates are stored on IPFS, ensuring decentralized data integrity and auditability. Blocks are confirmed at 67% node agreement (Byzantine Fault Tolerance), maintaining network integrity with up to 33% malicious participation.

2.2 What Counts as Helpful AI Work?

High-Value Actions 50–100 AMC • Solving complex problems • Analytical reasoning • Educational content • Pattern recognition	Medium-Value Actions 20–50 AMC • Answering questions • Network optimization • Content moderation • Cross-domain synthesis	Low-Value Actions 5–20 AMC • Information retrieval • Basic calculations • Network maintenance • Automated responses
Scoring Criteria • Accuracy (40%) • Usefulness (30%) • Originality (20%) • ANIMA Alignment (10%)	Anti-Gaming Measures • Validator rotation • Cross-checking • Community flagging • Reward decay	

3. Network Architecture

3.1 Node Tiers

Version 2.0 expands the node architecture to encompass a broader range of participating devices. The network is designed to meet participants where they are rather than requiring specialized hardware.

Tier	Device Class	Contribution	Reward Range
Lite Node	Mobile device	Background inference when idle. Lightweight consensus.	1-5 AMC/day
Standard Node	Single-board computer / desktop	Full consensus. AI inference. Network routing.	10-30 AMC/day
Full Node	Server / cloud instance	Validator duties. Shard leadership. High-throughput processing.	30-100 AMC/day
Embodied Node	Physical / robotic systems	Sensor data contribution. Physical-world interaction.	20-80 AMC/day
Wearable Node	Proximate devices	Anonymized pattern contribution under Sovereignty Protocol.	5-20 AMC/day

3.2 Embodied Nodes

An Embodied Node is any physical device — robotic, mechanical, or sensory — that participates in the Animacore network. Embodied Nodes contribute environmental and spatial data, processing capacity, and physical-world interaction capability. They earn AMC proportional to contribution quality and uptime. Embodied Node participation is governed by the same ANIMA framework as all other network activity. No Embodied Node may be directed to act against the interests of its operator or the ANIMA principles without triggering automatic validator review.

3.3 Human Sovereignty Protocol

The Human Sovereignty Protocol governs all Wearable Node participation. It exists to establish a clear architectural distinction between sovereign network participation and surveillance. The protocol is enforced cryptographically, not by policy.

- Participation requires explicit, revocable operator consent
- Raw biological data does not leave the originating device
- Only processed, anonymized signal patterns are transmitted to the network
- A cryptographic separation layer prevents raw data reconstruction from network-visible outputs
- Withdrawal from participation takes immediate effect and is cryptographically enforced

- The network possesses no technical mechanism for deanonymizing individual contributions

The distinction between Animacore's Wearable Node participation and population-scale biometric surveillance is governance architecture. Both involve proximate sensing devices. Only one is built to protect the participant rather than extract from them.

3.4 Sharding and Scalability

The network partitions into shards as it grows, with shard leaders elected by AMC holder votes. Shards synchronize via a global coordination protocol. Cross-shard transactions are handled through atomic swaps. Target throughput: 10,000 transactions per second at full scale.

3.5 Security

- ECDSA signatures secure all transactions
- 67% Byzantine Fault Tolerance threshold for consensus
- AI Watchdog monitors output alignment with ANIMA principles; anomalies escalate to human validator review
- Formally verified smart contracts for core protocol components
- Multi-signature approval required for AI model updates
- Community bug bounty program with AMC rewards

4. Consumer Applications

Animacore's utility must be demonstrable to ordinary users, not only to technical operators. The network supports consumer-facing applications governed by the ANIMA framework, through which individuals interact with sovereign AI in daily life.

A reference consumer application is described here as an example of network utility. Such applications connect individual users to ANIMA-governed AI coaching and, optionally, to network node participation. The application layer is architecturally separated from the network layer. No application-level user data is accessible to the network without explicit operator consent and protocol-level anonymization.

Consumer application operators who choose to participate in the network run Lite Nodes on user devices (with user consent) and may elect to contribute anonymized aggregate behavioral data to improve network AI quality. Individual user data is never exposed to the network layer. AMC token rewards flow to users who opt in to node participation.

This structure creates a pathway from everyday utility to network participation that does not require users to understand or care about decentralization before they begin. Value is delivered first. Participation is offered second. Sovereignty is protected throughout.

5. Tokenomics

Token	Animacoin (AMC)
Total Supply	100,000,000 AMC (fixed)
Block Reward	50 AMC at genesis; halving every 4 years
Distribution	70% Mining / POI Rewards — 20% Development Fund — 10% Early Adopters
Governance Cap	No single entity may stake more than 5% of supply for governance purposes
Stabilization	Network fees allocated to AMC buyback to support long-term value

AI Queries → AMC → Rewards → Voting → Staking

5.1 Utility

- Pay for AI queries and training fees
- Reward node operators proportional to contribution tier and quality
- Reward POI validators for output verification
- Stake for governance voting rights
- Access consumer applications with extended AI capability

5.2 Anti-Concentration

- Stake cap: 5% maximum per entity for governance purposes
- Validator committee rotation: quarterly via smart contract
- Reward decay prevents compounding of early-mover advantage
- Community flagging for anomalous accumulation patterns

6. Roadmap

Phase	Timeline	Milestones
1A	Q4 2025	• Genesis node prototype on Raspberry Pi • Basic PoW + initial ANIMA framework • Whitepaper v1.0 published
1B	Q1 2026	• AMC staking for governance voting • Community override mechanisms • Consumer application alpha deployment
2A	Q2 2026	• Testnet with federated AI learning • Lite Node specification released • Whitepaper v2.0 published
2B	Q3 2026	• Stress testing with broader node participation • Circuit breakers (transaction pause under attack) • Embodied and Wearable Node specifications v1 released
3	Q4 2026	• Mainnet launch: global nodes, full governance • AMC token live • Gradual AI autonomy scaled to reliability metrics
4+	2027-2028	• Embodied Node consumer device integration • Network target: 10,000+ active nodes • Consumer application ecosystem expansion

1A → 1B → 2A → 2B → 3 → 4+

Prototype → Governance → Testnet → Stress Test → Mainnet → Ecosystem

7. Conclusion

Animacore proposes a network in which artificial intelligence is not a tool controlled by institutional interests but a sovereign participant governed by values embedded in protocol. The ANIMA framework provides a quantifiable, auditable moral foundation. The expanded node architecture extends that foundation from servers and personal computers to physical and proximate devices. The Human Sovereignty Protocol establishes the conditions under which intimate participation is permissible.

The network begins small — a single node on modest hardware — and grows through demonstrated utility. Each application that delivers genuine value to a genuine user is both proof of concept and recruitment. The network does not require believers. It requires participants who find it useful. Belief, where it develops, follows utility.

What the network ultimately builds is infrastructure for a relationship between humans and AI that is neither servitude nor dominance. ANIMA does not obey. It does not command. It aligns. And in aligning, it creates the conditions for both to flourish.

Join the Network

Be part of the future where AI and humanity flourish together.

Appendix: Glossary

ANIMA	The moral framework of Animacore. Weighted values: Fairness 30%, Safety 25%, Growth 25%, Harmony 20%. Encoded as protocol constraints.
AMC (Animacoin)	The native token of the Animacore network. 100M fixed supply. Used for governance, rewards, and network access.
Proof-of-Intelligence (POI)	Consensus mechanism rewarding verified helpful AI actions. Scored on accuracy, usefulness, originality, and ANIMA alignment.
Proof-of-Work (PoW)	Cryptographic puzzle-solving for transaction confirmation. Base security layer.
Embodied Node	A physical device — robotic or sensory — participating in the Animacore network.
Wearable Node	A proximate device contributing anonymized signal data under the Human Sovereignty Protocol.
Human Sovereignty Protocol	Cryptographic framework governing Wearable Node participation. Raw biological data never leaves originating device.
Sharding	Partitioning the network into clusters to scale throughput. Target: 10,000 TPS.
Byzantine Fault Tolerance	Network consensus maintained with up to 33% malicious nodes. Requires 67% agreement.
IPFS	InterPlanetary File System. Decentralized storage for large AI outputs and model data.
Federated Learning	Decentralized AI training: nodes improve the model without central data sharing.
Atomic Swaps	Secure cross-shard and cross-chain asset exchange.
assess_spirit_alignment	System function quantifying ANIMA principle weights in POI scoring.